Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-6. (Canceled)

7. (Original): A recording medium on which information is recorded by 1 2 applying a laser pulse to form a mark on a recording layer, 3 the recording medium containing control parameters recorded for respective 4 linear velocities decided by: 5 a step of recording a first mark having a length not smaller than the laser spot 6 diameter in the recording layer at a first linear velocity; 7 a step of recording a second mark having a length equivalent to the first mark at a 8 second linear velocity; 9 a step of calculating an average value of the voltage values during an interval Ts 10 (Ts < Tm/2) in the time axis direction before and after the time position reference Tm/2 from the front edge of an electric signal waveform obtained by reproducing the first or the second mark at 11 12 a predetermined linear velocity and having a time width Tm; and 13 a step of deciding a control parameter of the laser pulse power level change 14 timing so that the aforementioned average value is substantially constant during recording at any 15 of the linear velocities.

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1	8. (Currently amended): A recording medium as claimed in any one of
2	elaims 5 toclaim 7, wherein:
3	a control parameter corresponding to a third linear velocity which is faster than
4	the first linear velocity and slower than the second linear velocity is further recorded, and
5	the control parameter corresponding to the third linear velocity is a control
6	parameter obtained by linear interpolation of the control parameter corresponding to the first
7	linear velocity and the control parameter corresponding to the second linear velocity.
1	9. (Original): A recording medium as claimed in claim 8, wherein the
2	control parameter corresponding to the third linear velocity is a control parameter obtained by
3	calculating a voltage value change amount at two points at a distance Ts (Ts \leq Tm/2) in the time
4	axis direction before and after the time position reference Tm/2 from the front edge of an electric
5	signal waveform having a time width Tm obtained by reproducing at a predetermined linear
6	velocity a third mark having a length equivalent to the first mark which third mark has been
7	recorded at a third linear velocity by the control parameter obtained by linear interpolation of the
8	control parameter corresponding to the first linear velocity and the control parameter
9	corresponding to the second linear velocity, and confirming that the change amount is
10	substantially constant during recording at any of the linear velocities.
1	10. (Original): A recording medium as claimed in claim 8, wherein the
2	control parameter corresponding to the third linear velocity is obtained by recording the third
3	mark having a length equivalent to the first mark at the third linear velocity by the control
4	parameter obtained by linear interpolation of the control parameter corresponding to the first
5	linear velocity and the control parameter corresponding to the second linear velocity and by

confirming that the reproduction jitter or reproduction waveform asymmetry obtained when the

third mark is reproduced has a predetermined quality.

2	claims 5 to <u>claim</u> 7, wherein:
3	a control parameter corresponding to a third linear velocity which is faster than
4	the first linear velocity and slower than the second linear velocity is further recorded, and
5	the control parameter corresponding to the third linear velocity is a control
6	parameter obtained by linear interpolation of the value of the control parameter corresponding to
7	the first velocity normalized by the recording clock cycle at the first linear velocity and the value
8	of the control parameter corresponding to the second velocity normalized by the recording clock
9	cycle at the second linear velocity.

12. (Currently amended): A recording medium as claimed in any one of claims 5 to claim 7, wherein identification information which ndicates indicates the control parameter group decided by the decision step is recorded.

13-25. (Canceled)

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